DECLARATION

INVENTORSHIP IDENTIFICATION

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

CATALYTIC PROCESSES FOR THE CONTROLLED POLYMERIZATION OF FREE RADICALLY (Co)POLYMERIZABLE MONOMERS AND FUNCTIONAL POLYMERIC SYSTEMS PREPARED THEREBY TITLE OF INVENTION SPECIFICATION IDENTIFICATION the specification of which: is attached hereto. (a) was filed on March 23, 2000 , as Serial No. <u>09/534,827</u> Ø (b) and was amended on _ (if applicable). was described and claimed in PCT International Application No. _ filed on _ (c) П and was amended on _____. (if applicable). ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims as amended by any amendment referred to above. I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56. PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)
(Prior Foreign/Pct Application(S) Filed Within 12 Months
(6 Months For Design) Prior To This Application)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate(s) or 365(a) of any PCT international application(s) which designated at least one country other than the United States of America, listed below and have also identified below any foreign application(s) for patent or inventor's certificate(s) or any PCT international application(s) having a filing date before that of the application(s) of which priority is claimed.

Application Number	Country or PCT	Date Of Filing	Priority not	Certified Copy
		(Day, Month, Year)	Claimed	Attached?
				☐ YES NO ☐

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
60/125,809	March 23, 1999
60/142,980	July 12, 1999

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120 (All Foreign Application(S), *If Any*, Filed More Than 12 Months (6 Months For Design) Prior To This U.S. Application)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or 365(c) PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application.

U.S Parent	PCT Parent	Date Of Filing	Parent Patent
Application No.	Application No.	(Day, Month, Year)	No. (If applicable)
			
			1

DECLARATION

I hereby declare that my presentation of this paper constitutes a certification under 37 C.F.R § 10.18, which provides, in part, that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful statements may jeopardize the validity of the application and any patent issuing therefrom.

SIGNATURE(S)

Inventor(s)			
Krzysztof	-	M	latyjaszewski
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	. FAMIL	Y (OR LAST NAME)
Inventor's signature	Thosyousof	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Date	4/18/00	Country of Citizenship	USA
Residence	Pittsburgh, PA 15238		
Post Office Address	9 Queens Court, Pittsburgh, PA 152	238	
	·		
Scott	G.		Gaynor
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMIL	LY (OR LAST NAME)
Inventor's signature	Cat 6.4-		,
Date	4/18/00	Country of Citizenship	USA
Residence	Pittsburgh, PA 15221		
Post Office Address:	228 Woodside Road, Pittsburgh, PA	A 15221	
			_
Hyun-jong			Paik
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMI	LY (OR LAST NAME)
Inventor's signature	on wino		
Date	418 (2000	Country of Citizenship	South Korea
Residence	Pittsburgh, PA 15213		
Post Office Address:	400 N. Neville Street, #203, Pittsbu	ırgh, PA 15213	
Tomislav			Pintauer
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	ram ,	ILY (OR LAST NAME)
Inventor's signature	Mutauer Toursav		
Date	04/18/2000	Country of Citizenship	Croatia
Residence	Pittsburgh, PA 15217		
Post Office Address	5644 Beacon Street, Apt. 2R, Pitts	burgh, PA 15217	
1°#			Pyun
Jeff (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAN	MILY (OR LAST NAME)
Inventor's signature	Allo D		
Date	1100	Country of Citizenship	USA
Residence	Pittsburgh, PA 15213	_	
Deat Office Address	. 4750 Contro Avenue Ant 3 Pitts	burgh PA 15213	

Jian			Qiu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMI	LY (OR LAST NAME)
Inventor's signature	Irace.		
Date	4/18/80	Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213		
Post Office Address:	4910 Centre Avenue, Apt. E-12, P	ittsburgh, PA 15213	
			•
Mircea			Teodorescu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	LY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Romania
Residence	Bucharest 78126 Romania		
Post Office Address:	1 Gh. Polizu Street, Bucharest 78	126 Romania	
		,	•
	-		V:-
Jianhui (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	Xia ILY (OR LAST NAME)
,	,,		,
Inventor's signature			<u></u>
Date		Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213		
Post Office Address:	358 Oakland Avenue, Apt. 3, Pitts	sburgh, PA 15213	
Vuon			Zhang
Xuan (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAN	IILY (OR LAST NAME)
,	,		
Inventor's signature		Country of Citizenship	Described Describing of Ct.
Date		Country of Citizenship	Peoples Republic of China
Residence	Woburn, MA 01801		
Post Office Address:	2 Mikaila Way, Woburn, MA 0180)1	

Jian			Qiu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMI	LY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213		
Post Office Address:	4910 Centre Avenue, Apt. E-12, P	ittsburgh, PA 15213	
Mircea	:		Teodorescu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	ILY (OR LAST NAME)
Inventor's signature	mteodorosa		
Date	4/26/2000	Country of Citizenship	Romania
Residence	Bucharest 78126 Romania	•	
Post Office Address:	1 Gh. Polizu Street, Bucharest 78	126 Romania	
Jianhui			Xia
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	ILY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213	-	
Post Office Address:	358 Oakland Avenue, Apt. 3, Pitts	burgh, PA 15213	
V			7hong
Xuan (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	Zhang IILY (OR LAST NAME)
	• • • • • • • • • • • • • • • • • • • •		•
Inventor's signature		Country of Citizenship	Poorlos Popublic of China
Date		- Country of Chizenship	Peoples Republic of China
Residence	Woburn, MA 01801		· · · · · · · · · · · · · · · · · · ·
Post Office Address:	2 Mikaila Way, Woburn, MA 0180	1	

Jian			Qiu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMI	LY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213		
Post Office Address:	4910 Centre Avenue, Apt. E-12, Pi	ittsburgh, PA 15213	
Mircea			Teodorescu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	ILY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Romania
Residence	Bucharest 78126 Romania	, country or outstromp	Tomana
Post Office Address:	1 Gh. Polizu Street, Bucharest 781	126 Romania	
1 051 01100 7 1001 005.	1 Cit. 1 Cit.2d Caroot, Edonardot 10	120 I torriding	
	* · · · · · · · · · · · · · · · · · · ·		
Jianhui			Xia
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	ILY (OR LAST NAME)
Inventor's signature	My		
Date	4/18/00	Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213	·	
Post Office Address:	358 Oakland Avenue, Apt. 3, Pitts	burgh, PA 15213	
	-		76
Xuan (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	— FAM	Zhang IILY (OR LAST NAME)
	(·-· , ··· - · · · · · · · · · · · · · · · · · · ·
Inventor's signature		0 4 600	
Date		Country of Citizenship	Peoples Republic of China
Residence	Woburn, MA 01801		
Post Office Address:	2 Mikaila Way, Woburn, MA 0180	1	

Jian		·	Qiu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMI	LY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213		
Post Office Address:	4910 Centre Avenue, Apt. E-12, P	ittsburgh, PA 15213	·
		,	•
Mircea		·	Teodorescu
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAM	ILY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Romania
Residence	Bucharest 78126 Romania	<u> </u>	
Post Office Address:	1 Gh. Polizu Street, Bucharest 78	126 Romania	
lianhui			Xia
Jianhui (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAN	IILY (OR LAST NAME)
Inventor's signature			
Date		Country of Citizenship	Peoples Republic of China
Residence	Pittsburgh, PA 15213	_	
Post Office Address:	358 Oakland Avenue, Apt. 3, Pitt	sburgh, PA 15213	
1 031 011100 7 1441 000.			
			Zhang
Xuan (GIVEN NAME)	(MIDDLE INITIAL OR NAME) FAI	MILY (OR LAST NAME)
•	Oben Yo		
Inventor's signature		Country of Citizenship	Peoples Republic of China
Date	<u> </u>	— Country of Chizenship	Leobies Kehanic of Clinia
Residence	Woburn, MA 01801		
Post Office Address:	2 Mikaila Way, Woburn, MA 018	01	

Peter	J.	Miller	
(GIVEN NAMI	E) (MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)	
Inventor's signate	ure July 1. Mall		
Date	4/28/00	Country of Citizenship USA	
Residence	Imperial, PA 15126		
Post Office Addre		PA 15126	
	Signature by administrator(trix), or legal representative for deceased or incapacitated		
i	inventor. Number of pages added	•	
	Signature for inventor who refuses to sign	gn or cannot be reached by person authorized under	
	37 CFR 1.47. Number of pages added_		
	Added page for signature by one joint inventor on behalf of deceased inventor(s) where		
	representative cannot be appointed in time. (37 CFR 1.47) Number of pages added		
	Authorization of attorney(s) to accept and follow instructions from representative.		
This dec	This declaration ends with this page.		

DECLARATION OR OATH

п. 🖂	No declaration or oath was filed. Enclosed is the original declaration or oath for this application.
NOTE:	If the correct inventor or inventors are not named on filing a nonprovisional application under \S 1.53(b) without an executed oath or declaration under \S 1.63, the later submission of an executed oath or declaration under \S 1.63 during the pendency of the application will act to correct the earlier identification of inventorship. 37 C.F.R. \S 1.48(f)(1).
	OR
	The declaration or oath that was filed was determined to be defective. A new original oath or declaration is attached.
NOTE:	For surcharge fee for filing declaration after filing date complete item VI(3) below.
NOTE:	"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 C.F.R. 1.63:
	"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g., 08/123,456);
	"(2) name of inventor(s), serial number and filing date;
	"(3) name of inventor(s) and attorney docket number which was on the specification as filed;
	"(4) name of inventor(s), title which was on the specification as filed and filing date;
	"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
	"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."
	Notice of Jul. 13, 1995 (1177 O.G. 60); M.P.E.P. § 601.01(a), 6th ed., rev. 3.
NOTE:	Another minimum found acceptable in the declaration is the filing date (i.e., date of express mail) and the express mail number, useful where the serial number is not yet known. But note the practice where the express mail deposit is a Saturday, Sunday or holiday within the District of Columbia. 37 C.F.R. 1.10(c).
	(complete (c) or (d), if applicable)
Attache	d is a
(c) 🛚	Statement by a registered attorney that the application filed in the PTO is the application that the inventor executed by signing the declaration.
(d) 🗌	Statement that the "attached" specification is a copy of the specification and any amendments thereto that were filed in the PTO to obtain the filing date.
	AMENDMENT CANCELLING CLAIMS
ш. [Cancel claims inclusive.

TRANSMITTAL OF ENGLISH TRANSLATION OF NON-ENGLISH LANGUAGE PAPERS

IV. 🗆	Submitted herewith is an English translation of the non-English language application papers as originally filed. Also submitted herewith is a statement by the translator of the accuracy of the translation. It is requested that this translation be used as the copy for examination purposes in the PTO.		
NOTE: For	fee processing a non-English application, complete item VI(5) below.		
NOTE: A n	on-English oath or declaration in the form provided by the PTO need	not be translated. 37 C.F.R. 1.69(b).	
	SMALL ENTITY ST	ATUS	
v. 🗆	. A statement that this filing is by a small entity		
	(check and complete applicable items)		
	is attached.		
	☐ A separate refund request accompanies this	papèr.	
	was filed on(original).		
	COMPLETION FEES		
VI.			
WARNI	NG: Failure to submit the surcharge fees where required will cause 37 C.F.R. 1.53.	e the application to become abandoned.	
NOTE: I	For effect on fees of failure to establish status, or change status, as a sn	nall entity, see 37 C.F.R. 1.28(a).	
1. Filin	g fee		
	original patent application (37 C.F.R. 1.16(a)—\$760.00; Small entity—\$380.00)\$_		
	design application (37 C.F.R. 1.16(f)—\$310.00; small entity—\$155.00)	\$	
		\$	
2. Fees	s for claims		
	each independent claim in excess of 3 (37 C.F.R. 1.16(b)—\$78.00; small entity—\$39.00)	\$	
	each claim in excess of 20 (37 C.F.R. 1.16(c)—\$18.00; small entity—\$9.00)	\$	
	multiple dependent claim(s) (37 C.F.R. 1.16(d)—\$270.00; small entity—\$135.00)	\$	

3. Surc	harge fees		
	late payment of filing fee		
	and/or		
\boxtimes	late filing of original declaration or oath (37 C.F.R. 1.16(e)—\$130.00; small entity—\$	65.00); \$ <u>130.00</u>	
NOTE:	Even where a facsimile declaration or oath signed by th the surcharge fee is required.	e inventor(s) was part of the ori	ginally filed papers,
NOTE:	If both the filing fee and declaration or oath were missin for both need be paid. 37 C.F.R. 1.16(e).	ng from the original papers, only	y one surcharge fee
4. 🗌	Petition and fee for filing by other than all the or a person not the inventor (37 C.F.R. 1.17(i) 1.47—\$130.00)		
5. 🗌	Fee for processing an application filed with a specification in a non-English language (37 C.F.R. 1.17(k) and 1.52(d)—\$130.00)	\$	
6. 🗌	Fee for processing and retention of application (37 C.F.R. 1.21(l) and 1.53(d)—\$130.00)	n \$	
7.	Assignment (See "ASSIGNMENT COVER S	SHEET".)	
NOTE:	37 C.F.R. 1.21(1) establishes a fee for processing and refailing to complete the application pursuant to 37 C.F.I. 1.53 and 1.78 indicate that in order to obtain the benefor the processing and retention fee of § 1.21(1) within 1	R. 1.53(f) and this, as well as, th it of a prior U.S. application, ei	e changes to 37 C.F.R. ther the basic filing fee
	Total completion fees	\$ <u>130.00</u>	<u>) </u>
	EXTENSION O	F TIME	
VII.	(complete (a,) or (b), as applicable)	
	The proceedings herein are for a patent appli	cation, and the provisions	of 37 C.F.R. 1.136(a) appl
	(a) Applicant petitions\ for an extension 1.17(a)(1)-(4), for the total number	n of time, the fees for whic of months checked below:	ch are set out in 37 C.F.R.
	Extension (months)	Fee for other than small entity	Fee for small entity
	one month two months three months four months	\$ 110.00 \$ 380.00 \$ 870.00 \$1,360.00	\$ 55.00 \$190.00 \$435.00 \$680.00
-			Fee \$

If an additional extension of time is required, please consider this a petition therefor. (check and complete the next item, if applicable)

	An extension for months has already been secured, and the fee paid therefor of \$ is deducted from the total fee due for the total months of extension now requested.
	Extension fee due with this request \$
	or
(b) 🛚	Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.
	TOTAL FEE DUE
VIII.	
	The total fee due is
	Completion fee(s) \$ 130.00 Extension fee (if any) \$ -0-
	Total Fee Due <u>\$130.00</u>
	PAYMENT OF FEES
ıx.	
\boxtimes	Enclosed is a check in the amount of \$_130.00
	Charge Account No in the amount of \$ A duplicate of this request is attached.
NOTE:	Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. 1.22(b).
	Please charge Account No. 11-1110 for any fees that may be due by this paper.
	AUTHORIZATION TO CHARGE ADDITIONAL FEES
x.	
WARI	NING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges if extra claims are authorized.
NOTE:	"Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).
	The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the pendency of this application to Account No. 11-1110
	37 C.F.R. 1.16(a), (f) or (g) (filing fees)
	37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)

o: h	nly be paid or these	e claims cancelled by amendment notice of fee deficiency (37 C.F.)	ent claims not paid on filing or on later presentation must prior to the expiration of the time period set for response R. 1.16(d)), it might be best not to authorize the PTO to along with amendments after final action.
	\boxtimes	37 C.F.R. 1.16(e) (sure declaration on a date later	harge for filing the basic filing fee and/or than the filing date of the application)
	\boxtimes	37 C.F.R. §§ 1.17(a)(1)-(5	i) (extension fees pursuant to § 1.136(a))
	\boxtimes	37 C.F.R. 1.17 (application	n processing fees)
i i j	reply, requiring a incorporating a peti required fees, fees to for an extension of to paragraph for its to constructive netition	petition for an extension of ti ition for extension of time for the under § 1.17, or all required exte- time in any concurrent or future r	n that is an authorization to treat any concurrent or future me under this paragraph for its timely submission, as appropriate length of time. An authorization to charge all nsion of time fees will be treated as a constructive petition eply requiring a petition for an extension of time under this of the fee set forth in § 1.17(a) will also be treated as a concurrent reply requiring a petition for an extension of time C.F.R. § 1.136(a)(3).
		37 C.F.R. 1.18 (issue for pursuant to 37 C.F.R. 1	ee at or before mailing of Notice of Allowance, .311(b))
	Where an authorize of Allowance, the is of allowance. 37 C	ssue fee will be automatically cha	leposit account has been filed before the mailing of a Notice rged to the deposit account at the time of mailing the notice
	in the application .	prior to naving or at the time	nge in loss of entitlement to small entity status must be filed of paying issue fee" From the wording of 37 C.F.R. e made even if the fee is paid as "other than a small entity" o another small entity.
			Mustay & Churche MGNATURE OF PRACTITIONER
Reg. 1	No. 30,557		Christine R. Ethridge (type or print name of practitioner)
Tel. N	lo.: (412) 355-8	619	Kirkpatrick & Lockhart LLP P.O. Address Henry W. Oliver Building 535 Smithfield Street Pittsburgh, PA 15222-2312

Customer No.

	- 			
FORM PTO-1619A Expires 06/30/99 OMB 0651-0027	Γ		Patent and	tment of Commerce T Trademark Office PATENT
	L		1 .	
,	RECORDATION	FORM COVE	R SHEET	
		ENTS ONLY		
To: The Commissioner of Paten			hed original document(s	a) or copy(ies).
Submission Type		Conveyance T		7
		Assignment	Security A	anonment.
New		☐ Assignment	Security A	rgreement
Resubmission (Non-Records	ation)	License	Change o	f Name
		Merger	Other	
Correction of PTO Error				
Reel # Fran	me#	1	U.S. Government	
		(For Use C	ONLY by U.S. Governn	ent Agencies)
Corrective Document				
Reel # Fra	me #	☐ Depa	artmental File	Secret File
Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date Month Day Year				
Name (line 1) Krzysztof Ma	atyjaszewski			04/18/2000
Name (line 2)				
Second Party	t			Execution Date Month Day Year
Name (line 1) Scott G. Gay	nor			04/18/2000
Name (line 2)				
Receiving Party		Mark if add	litional names of receivi	ng parties attached
1	3 6 11 TT : 34		If docum	ent to be recorded
Carnegie	Mellon University			nment and the
Name (line 2)				party is not I in the United
Address (line 1)	has Assessed		States, an	appointment
	bes Avenue		of a dome	stic ative is attached.
Address (line 2)				tion must be a
	- In		separate	document from
Address (line 3) Pittsburg				ent.)
Ci	ty State/C	country	Zip Code	
	FOR (OFFICE USE ONLY		
	1010			•
1				

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

FORM PTO-	- · · · · · · · · · · · · · · · · · · ·
Expires 06/3	
OMB 0651-0	Page 2 PATENT presentative Name and Address
Domesuc Kej	Enter for the first Receiving Party only.
Name [-
Address (line 1)	
Address (line 2)	
Address (line 3)	
Address (line 4)	
Corresponde	ent Name and Address
_	Area Code and Telephone Number (412) 355-8619
Name	Christine R. Ethridge, Esquire
Address (line 1)	Kirkpatrick & Lockhart LLP
Address (line 2)	Henry W. Oliver Building
Address (line 3)	535 Smithfield Street
Address (line 4)	Pittsburgh, PA 15222-2312
Pages	Enter the total number of pages of the attached conveyance document including any attachments. # 5
Application	Number(s) or Patent Number(s) Mark if additional numbers attached
Enter either the	e Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).
Patent	Application Number(s) Patent Number(s)
09/534827	
	is being filed together with a <u>new</u> Patent Application, enter the date the patent application was Month Day Year to named executing inventor.
Patent Coop	peration Treaty (PCT) PCT PCT PCT
	PCT application number
	a U.S. Application Number of been assigned. PCT PCT PCT
Number of	Properties
31	Enter the total number of properties involved. # 1
	40.00 40.00
Fee Amoun	fee Amount for Properties Listed (37 CFR 3.41): \$ [40.00]

Method of Payment: Deposit Account	Enclosed Deposit Account
(Enter for payment by deposit ac	count or if additional fees can be charged to the account.)
` ', ', '	Deposit Account Number: # 11-1110
	Authorization to charge additional fees: Yes No
Statement and Signature	
	f, the foregoing information is true and correct and any attached copy is a harges to deposit account are authorized, as indicated herein.
Christine R. Ethridge Name of Person Signing	Mustum K. Sturide 6/8/00 Signature Date

. . .

FORM PTO-1619C Expires 06/30/99 OMB 0651-0027	RECORDATION FORM CONTINUATION PATENTS ONL	И	J.S. Department of Commerce Patent and Trademark Office PATENT
Conveying Party(ies) Enter additional Conveying I	⊠ Ma		es of conveying parties attached Execution Date Month Day Yes
Name (line 1) Hyun-ione	Paik		04/18/2000
Name (line 2)			
<u> </u>			Execution Date Month Day Ye
Name (line 1) Tomislav	Pintauer		04/18/2000
Name (line 2)			
			Execution Date Month Day Ye
Name (line 1) Jeff Pyun			04/18/2000
Name (line 2)			
Enter additional Receiving I Name (line 1) Name (line 2)	'arty(les)		If document to be recorded is an assignment and the receiving party is not
Address (line 1)			domiciled in the United States, an appointment
Address (line 2)			of a domestic representative is attached. (Designation must be a
Address (line 3)	City State/Country	Zip Code	separate document from Assignment.)
Name (line 1)	Old, Daniel Cram,	—— ` [If document to be recorded is an assignment and the
Name (line 2)			receiving party is not domiciled in the United
Address (line 1)			States, an appointment
Address (line 2)			of a domestic representative is attached.
			(Designation must be a separate document from
Address (line 3)	City State/Country	Lip Code	
Application Numbe	r(s) or Patent Number(s)	Mar	k if additional numbers attache
Enter either the Patent App	plication Number or the Patent Number (DC) NOT ENTER BOTH A	numbers for the same property).
		. 1	Patent Number(s)
Patent Application	on Number(s)		
Patent Application	on Number(s)		
Patent Application	on Number(s)		
Patent Application	on Number(s)		

FORM PTO-1619C Expires 06/30/99 OMB 0651-0027	RECORDATION FORM COVICE CONTINUATION PATENTS ONLY	ER SHEET J.S. Department of Commerce Patent and Trademark Office
Conveying Party(ies) Enter additional Conveying Parties	107	additional names of conveying parties attached Execution Date
Name (line 1) Jian Qiu	-	Month Day Year 04/18/2000
Name (line 2)		
Name (line 1) Mircea Teoc		Execution Date Month Day Year
Name (line 2)	lorescu	
<u> </u>		Execution Date Month Day Year
Name (line 1) Jianhui X	а	04/18/2000
Name (line 2)		
Receiving Party(ies) Enter additional Receiving Party(ies) Name (line 1) Name (line 2) Address (line 1) Address (line 3) City Name (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3) City City City		If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.) Zip Code If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.) Zip Code
Application Number(s) or	Patent Number(s)	Mark if additional numbers attached
•		ENTER BOTH numbers for the same property).
Patent Application Numl	per(s)	Patent Number(s)
]	
] <u> </u>	
	」 <u> </u>	
	<u> </u>	

FORM PTO-1619C Expires 06/30/99	RECORDATION FORM COVER SHEET CONTINUATION	J.S. Department of Commerce Patent and Trademark Office		
OMB 0651-0027	PATENTS ONLY	PATENT		
Conveying Party(ies)		nes of conveying parties attached		
Enter additional Conveying Parties		Execution Date Month Day Year		
Name (line 1) Xuan Zhang		04/19/2000		
Name (line 2)				
Name(line 1) Peter J. Mi		Execution Date Month Day Year		
Name (line 2)	1161	04/18/2000		
Trame (une 2)				
Name (line 1)		Execution Date Month Day Year		
Name (line 2)				
Receiving Party(ies) Enter additional Receiving Party(ies)		nes of receiving parties attached		
Name (line 1)		If document to be recorded		
Name (line 2)		is an assignment and the receiving party is not domiciled in the United		
Address (line 1)		States, an appointment of a domestic		
Address (line 2)		representative is attached. (Designation must be a		
Address (line 3)	State/Country Zip Code	separate document from Assignment.)		
Name (line 1)	State-Country Zip Code	If document to be recorded		
Name (line 2)		is an assignment and the receiving party is not		
Address (line 1)		domiciled in the United States, an appointment		
L		of a domestic		
Address (line 2)		representative is attached. (Designation must be a		
Address (line 3)		separate document from Assignment.)		
City State/Country Zip Code				
Application Number(s) or Patent Number(s) Mark if additional numbers attached				
Enter either the Patent Application N	lumber or the Patent Number (DO NOT ENTER BOTH t	numbers for the same property).		
Patent Application Numb	er(s)	Patent Number(s)		
<u> </u>				

·. · · ·

Attorney's Docket No. 00093	PATENT	
	For: ⊠ U.S. and/or ⊠ Foreign Rights For: ⊠ U.S. Application or	
	U.S. Provisional Application	
	For: U.S. Patent	
	For: PCT Application	
	By: Multiple Inventors	
ASSIGNMENT OF I	NVENTION (MULTIPLE INVENTORS)	
In consideration of the payment by ASSI receipt of which is hereby acknowledged, an	IGNEE to ASSIGNOR of the sum of One Dollar and for other good and valuable consideration,	(\$1.00), the
ASSIGNORS (Inventors):		
	9 Queens Court	
Krzysztof Matyjaszewski	Pittsburgh, PA 15238	USA
(type or print name of inventors)	Address	Nationality
	228 Woodside Road	
Scott G. Gaynor		USA
55000		
	400 N. Neville St. #203	
Hyun-jong Paik		S. Korea
riyar-jong r aik		
	5644 Beacon Street, Apt. 2R	0
Tomislav Pintauer	Pittsburgh, PA 15217	<u>Croatia</u>
•	4750 Centre Avenue, Apt. #3	
Jeff Pyun		USA
JOHT YOU		
	4910 Centre Avenue, Apt. E-12	Don Of China
Jian Qiu	Pittsburgh, PA 15213 Peoples	Rep. Of China
	1 Gh. Polizu Street	
Mircea Teodorescu		Romania
milood 100d01000		
	358 Oakland Avenue, Apt. 3	Bon Of China
Jianhui Xia	Pittsburgh, PA 15213 Peoples	rep. Of Chila
	2 Mikaila Way	
Xuan 7hang	Woburn, MA 01801 Peoples	Rep. Of China

140 Forest Glen Drive Imperial, PA 15126

USA

Xuan Zhang

Peter J. Miller

hereby sells,	assigns and transfers to	
ASSIGNEE:		
Carnegie Me	llon University	5000 Forbes Avenue
(type or print na	me of ASSIGNEE)	Address
<u>(a Non-profit</u> Nationality	Pennsylvania organization)	Pittsburgh, PA 15213
and the succ	essors, assigns and legal representatives	of the ASSIGNEE
	(complete one of	the following)
	the entire right, title and interest	
and its territor	an undivided percent (orial possessions	%) interest for the United States
	(check the following box, if foreign	rights are also to be assigned)
CONTROLL	nts which are disclosed in the invention enti LED POLYMERIZATION OF FREE RADICA AL POLYMERIC SYSTEMS PREPARED T	HEREBY
	(check and complete (a), (o), (c), (d), (e), (f) or (g))
and which is	s found in	
(a) 🗌	U.S. patent application executed on even	date herewith
(b) 🗆	U.S. patent application executed on	·
(c) 🗆	U.S. provisional application naming the ab	ove inventor(s) for the above-entitled invention
	Express mail label no.:	
	Mailed:	
	To comply with 37 CFR 3.21 for recordal hereby authorize and request my attornumber when they become known.	of this assignment, I, an ASSIGNOR signing below, ney to insert below the filing date and application
(d) 🔯	U.S. application no.: <u>09/534,827</u>	filed on March 23, 2000
(e) 🗌	International application no. PCT /filed on	<u> </u>
(f) 🗆	U.S. patent no.	issued
	 A change of address to which corres fees is being sent separately. 	pondence is to be sent regarding patent maintenance

(also check (g), if foreign application(s) is also being assigned)

(g) ⊠ and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have	Date of s	gning
WARNING: The date of signing must be the sar	me as the date of execution of the application, if item (a) was checked abo	ve.
Krzysztof Matyjaszewski	ghodyees?	4/18/2000
(type name of Inventor)	Signature of INVENTOR	Date
Scott G. Gaynor	(at 6.5 -	4/18/2000
Scott G. Gayrioi	7 713	Date
	02 00	4/18/2000
Hyun-jong Paik		Date
T. Ide Distance	Sounday Prutaver	4/18/2000
Tomislav Pintauer	1	Date
Leff Davis	Alh	4/18/200
Jeff Pyun	—— ———————————————————————————————————	Date
Jian Qiu	Juak	4/18/200
Jian Qiu		Date
Mircea Teodorescu		•
		•
Jianhui Xia	la s	4/18/200
Jidililii Aid		Date
Xuan Zhang		
	6 5 / //////	À / 10 / 20 0
Peter J. Miller		4/18/2000 Date
	•	Date
		··
□ Not	arization or Legalization Page Added.	

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(also check (g), if foreign application(s) is also being assigned)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have t	hereunto set hand and seal this
ARNING: The date of signing must be the sam	ne as the date of execution of the application, if item (a) was checked above.
rzysztof Matyjaszewski ype name of Inventor)	Signature of INVENTOR
cott G. Gaynor	
yun-jong Paik	
omislav Pintauer	
eff Pyun	
an Qiu	
lircea Teodorescu	<u> </u>
ianhui Xia	
Kuan Zhang	Jhs, x
Peter J. Miller	
	· · · · · · · · · · · · · · · · · · ·
□ Not	tarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facle evidence of execution. 35 USC 261. Use next page if notarization is desired.

(also check (g), if foreign application(s) is also being assigned)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand	and seal this	April	26,	2000
IN WITHESS WILLIAM, WE have herealle bettern				Date of signing
WARNING: The date of signing must be the same as the date of execu-	ition of the application	on, if item (a)	was ch	ecked above.
Krzysztof Matyjaszewski (type name of Inventor)	ignature of INVEN	TOR		,
•••				
Hyun-jong Paik -				
Tomislav Pintauer -				
Jeff Pyun				
Jian Qiu				
Mircea Teodorescu	mteo	dover		
Jianhui Xia				
Xuan Zhang				
Peter J. Miller				
	zation Page Add	ed.		

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

Attorney Docket No. 00093

In re application of: Matyjaszewski et al.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group No.: Application No.: 09/534,827 Examiner: Filed: March 23, 2000 CATALYTIC PROCESSES FOR THE CONTROLLED POLYMERIZATION OF FREE RADICALLY For: (Co)POLYMERIZABLE MONOMERS AND FUNCTIONAL POLYMERIC SYSTEMS PREPARED **THEREBY Assistant Commissioner for Patents** Washington, DC 20231 STATEMENT BY PRACTITIONER THAT APPLICATION FILED IN PTO IS THE ONE INVENTOR EXECUTED BY SIGNING DECLARATION This form is to be used when the declaration only indicates the name(s) of the inventor(s) and the title of the invention. Notice of NOTE: September 12, 1983, 1035 O.G. 3. I, Christine R. Ethridge Name of Practitioner Kirkpatrick & Lockhart LLP P.O. Address Henry W. Oliver Building, 535 Smithfield Street, Pittsburgh, Pennsylvania 15222-2312 Tel. No. (412) 355-8619 Reg. No. 30,557 state I am the registered practitioner for this application and the application identified above is the application that the inventor(s) executed by

Customer No.: CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8a)

I hereby certify that this correspondence is, on the date shown below, being:

deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents,

MAILING

Washington, D.C. 20231.

signing the declaration that is being submitted herewith.

Date: ____

FACSIMILE

transmitted by facsimile to the Patent and Trademark Office.

Signature

(type or print name of person certifying)

(Statement by Practitioner That Application Filed in PTO is the One Inventor Executed by Signing Declaration

[5-10])

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE 37 C.F.R. § 3.73(b) Statement

Applicants: Matyjaszewski et al.

For: CATALYTIC PROCESSES FOR THE CONTROLLED POLYMERIZATION OF FREE RADICALLY (Co)POLYMERIZABLE MONOMERS AND FUNCTIONAL POLYMERIC SYSTEMS PREPARED THEREBY

Serial No.: 09/534,827 Filed: March 23, 2000

Carnegie Mellon University (a non-profit Pennsylvania organization) is the assignee of the entire right,
itle and interest in the patent application identified above by virtue of either:
A. An assignment from the inventor(s) of the patent application identified above. The assignment was
recorded in the United States Patent and Trademark Office onat Reel, Frame,
or for which a copy thereof is attached.
OR
B. A chain of title from the inventor(s) of the patent application identified above to the current assignee as
shown below:
1. From K. Matyjaszewski et al. To: Carnegie Mellon University
The document was recorded in the United States Patent and Trademark Office on at
Reel, Frame, or for which a copy thereof is attached.
igotimes Copies of assignments or other documents in the chain of title are attached.
The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the
assignee.

Power Of Attorney

I hereby revoke all previous powers of attorney, if any, and appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Michael G. Biro	Reg. No. P-46,556	James R. Kyper,	Reg. No. 27,346
Carol I. Bordas,	Reg. No. 37,284	Mark R. Leslie,	Reg. No. 36,360
Roberto Capriotti	Reg. No. P-46,599	Franklin B. Molin,	Reg. No. 37,397
George D. Dickos,	Reg. No. 30,048	Robert A. Muha,	Reg. No. 44,249
Thomas J. Edgington,	Reg. No. 34,324	Donald R. Palladino	Reg. No. P-46,976
Christine R. Ethridge,	Reg. No. 30,557	Jonathan C. Parks,	Reg. No. 40,120
Richard W. James,	Reg. No. 43,690	Bernard G. Pike	Reg. No. P-46,993
James M. Joyce,	Reg. No. 43,700	Benjamin T. Queen, II	Reg. No. 41,260
Mark G. Knedeisen.	Reg. No. 42,747	David Schramm	Reg. No. 41,295
William E. Kuss,	Reg. No. 41,919	Robert D. Yeager	Reg. No. 25,047

Please Direct All Correspondence to: Christine R. Ethridge, Esq.

Kirkpatrick & Lockhart, LLP Henry W. Oliver Building 535 Smithfield Street Pittsburgh, PA 15222-2312

Declaration

I hereby declare that my presentation of this paper constitutes a certification under 37 C.F.R § 10.18, which provides, in part, that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful statements may jeopardize the validity of the application and any patent issuing therefrom.

Date

Signature

Name

Title

Susan Burkett

Associate Provost



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

OCTOBER 03, 2000

KIRKPATRICK & LOCKHART LLP CHRISTINE R. ETHRIDGE 535 SMITHFIELD STREET HENRY W. OLIVER BUILDING PITTSBURGH, PA 15222-2312 OUT 11 2000

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/13/2000

REEL/FRAME: 010999/0482

NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MATYIASZEWSKI, KRZYSZTOF

DOC DATE: 04/18/2000

ASSIGNOR:

GAYNOR, SCOTT G.

DOC DATE: 04/18/2000

ASSIGNOR:

PAIK, HYUN-JONG

DOC DATE: 04/18/2000

DOCKETED OCT 1 1 2000

ASSIGNOR:

PINTAUER, TOMISLAY

DOC DATE: 04/18/2000

TERRI WATSON

ASSIGNOR:

PYUN, JEFF

DOC DATE: 04/18/2000

ASSIGNOR:

QIU, JIAN

DOC DATE: 04/18/2000

ASSIGNOR:

TEODORESCU, MIRCEA

DOC DATE: 04/26/2000

010999/0482 PAGE 2

ASSIGNOR:

XIA, JIANHUI DOC DATE: 04/18/2000

ASSIGNOR:

ZHANG, XUAN DOC DATE: 04/19/2000

ASSIGNOR:

MILLER, PETER J. DOC DATE: 04/18/2000

ASSIGNEE:

CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PENNSYLVANIA 15213

SERIAL NUMBER: 09534827 FILING DATE: 03/23/2000

PATENT NUMBER: ISSUE DATE:

SHAREILL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FORM PTO-1619A 08-19-2000 Expires 06/30/99 **ÖMB 0651-0027** 101437402 RECORDATION FORM COVER SHEET 1.13.00 **PATENTS ONLY** To: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies). **Submission Type** Conveyance Type ⋈ New Assignment **Security Agreement** Resubmission (Non-Recordation) License Change of Name Document ID # Merger Other **Correction of PTO Error** Reel # Frame # U.S. Government (For Use ONLY by U.S. Government Agencies) Corrective Document Reel # Departmental File Secret File Frame# Mark if additional names of conveying parties attached Conveying Party(ies) Execution Date Month Day Year Name (line 1) Krzysztof Matyiaszewski 04/18/2000 Name (line 2) Second Party Execution Date Month Day Year Name (line 1) Scott G. Gaynor 04/18/2000 Name (line 2) **Receiving Party** Mark if additional names of receiving parties attached If document to be recorded Name (line 1) Carnegie Mellon University is an assignment and the Name (line 2) receiving party is not domiciled in the United Address (line 1) States, an appointment 5000 Forbes Avenue of a domestic representative is attached. Address (line 2) (Designation must be a

08/17/2000

01 FC:581

FOR OFFICE USE ONLY

15213

Zip Code

PA

State/Country

Pittsburgh

City

09534827

separate document from

Assignment.)

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

> Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Address (line 3)

40.00 CH

FORM PTO- Expires 06/3	0/99 JUL 1 3 2000 8 Patent and Trademark Office
OMB 0651-	
Domestic Re	Presentative Party and Adress Enter for the first Receiving Party only.
Name	
ddress (line 1)	
ddress (line 2)	·
ddress (line 3)	
ddress (line 4)	
Correspond	ent Name and Address Area Code and Telephone Number (412) 355-8619
Name	Christine R. Ethridge, Esquire
Address (line 1)	Kirkpatrick & Lockhart LLP
Address (line 2)	Henry W. Oliver Building
Address (line 3)	535 Smithfield Street
Address (line 4)	Pittsburgh, PA 15222-2312
Pages	Enter the total number of pages of the attached conveyance document including any attachments. # 5
Application	Number(s) or Patent Number(s) Mark if additional numbers attached
Enter either ti	he Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).
Paten	t Application Number(s) Patent Number(s)
09/534827	
If this document signed by the fir	t is being filed together with a <u>new</u> Patent Application, enter the date the patent application was st named executing inventor. Month Day Year
	PCT PCT PCT PCT
<u>only</u>	er PCT application number if a U.S. Application Number not been assigned. PCT PCT PCT
has i	not been assigned. PCT PCT PCT
Number o	f Properties Enter the total number of properties involved. # 1
Fee Amou	Int Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:	Enclosed Deposit Account	
Deposit Account		
(Enter for payment by deposit acco	ount or if additional fees can be charged to the account.)	
	Deposit Account Number: # 11-1110	
	Authorization to charge additional fees: Yes No No	
Statement and Signature		
The standard and bolish	the foregoing information is true and correct and any attached copy is a	
10 the best of my knowledge and bellef,	the joregoing information is true and correct and any desired	
true copy of the original document. Ch	arges to deposit account are authorized, as indicated herein.	
Christine R. Ethridge	Mrstyn K. Etwiden 6/8/00	
	Signature Date	
Name of Person Signing	Signature	

i

• •

.

Expires 06/30/99 OMB 0651-0027 Conveying Party Enter additional Conve Name (line 1) Hyun- Name (line 2)		PATENTS OF	NLY		t and Trademark Off
Enter additional Conve	ying Parties	OIPA	Mark if addi		PATENT
Name (line 1) Hyun-		/		tional names of co	onveying parties attac
(Hyun-	iong Paik		<u> </u>		Execution Da Month Day
Name (line 2)		JUL 1 3 2000	Š		04/18/20
<u> </u>			7		
		MADEMANNE] Execution Da
Name (line 1)					Month Day
1 omis	slav Pintauer				
Name (line 2)			·		
	•				Execution Day
Name (line 1) Jeff P	yun		"		04/18/20
Name (line 2)					
Receiving Party(1es) ving Party(ies)		Mark if addi		eceiving parties attach
Name (line 1)					assignment and the
Name (line 2)			<u> </u>		iving party is not iciled in the United
Address (line 1)				State	es, an appointment
Address (line 2)					domestic esentative is attached
				•	signation must be a arate document from
Address (line 3)				Assi	gnment.)
Name (line 1)	City	State/Country		Zip Code	ocument to be recorde
· L				is ar	assignment and the
Name (line 2)					iving party is not niciled in the United
Address (line 1)		-		1	es, an appointment domestic
Address (line 2)				rep	resentative is attached
					signation must be a arate document from
Address (line 3)	City	State/Country		Zip Code	ignment.)
	City	State Country			
Application Nur	nber(s) or Pa	tent Number(s)		Mark if add	litional numbers attac
Enter either the Pate	nt Application Numl	ber or the Patent Number	(DO NOT ENT	ER BOTH numbers	for the same property).
Patent App	lication Number(s)			Patent l	Number(s)
			<u> </u>		
	l				

Name (line 1) Name (line 1) Name (line 2)	is an assignm receiving par domiciled in States, an ap of a domestic representation (Designation separate doc Assignment.)	Execution Date Month Day Year 04/18/200 Execution Date Month Day Year 04/26/20 Execution Date Month Day Year 04/18/200 execution Date Month Day Year 04/18/200 parties attached to be recorded ment and the lice in the United pointment ice ive is attached.
Name (line 1) Mircea Teodorescu Name (line 2) Name (line 1) Jianhui Xia Name (line 2) Receiving Party(ies)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	Execution Date Month Day Year 04/26/20 Execution Date Month Day Year 04/18/200 Execution Date Month Day Year 04/18/200 Execution Date Month Day Year 104/18/200 Execution Date Month Day Year 104/
Name (line 1) Mircea Teodorescu Name (line 2) Name (line 1) Jianhui Xia Name (line 2) Receiving Party(ies)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	Execution Date Month Day Year 04/26/20 Execution Date Month Day Year 04/18/200 a parties attached to be recorded ment and the arty is not a the United ppointment ic ive is attached. must be a
Name (line 1) Mircea Teodorescu Name (line 2) Name (line 1) Jianhui Xia Name (line 2) Receiving Party(ies)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	Execution Date Month Day Year 04/26/20 Execution Date Month Day Year 04/18/200 a parties attached a to be recorded ment and the arty is not a the United ppointment ic ive is attached. must be a
Name (line 1) Mircea Teodorescu Name (line 2) Name (line 1) Jianhui Xia Name (line 2) Receiving Party(ies)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	Execution Date Month Day Year 04/18/200 1 parties attached 1 to be recorded ment and the nerty is not 1 the United ppointment ic ive is attached. In must be a
Name (line 2) Name (line 1)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	Execution Date Month Day Year 04/18/200 a parties attached to be recorded ment and the arty is not a the United ppointment ic ive is attached. In must be a
Name (line 1)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	Month Day Year 04/18/200 a parties attached to be recorded ment and the arty is not a the United ppointment ic ive is attached. In must be a
Name (line 2) Receiving Party(ies) Enter additional Receiving Party(ies) Name (line 1) Name (line 2) Address (line 2) Address (line 3) City State/Country Name (line 1) Name (line 2) Address (line 1)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	Month Day Year 04/18/200 parties attached to be recorded ment and the arty is not a the United ppointment ic ive is attached. In must be a
Name (line 2) Receiving Party(ies) Enter additional Receiving Party(ies) Name (line 1) Name (line 2) Address (line 2) Address (line 3) City State/Country Name (line 2) Address (line 1)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	parties attached to be recorded ment and the arty is not a the United ppointment ic ive is attached. in must be a
Receiving Party(ies) Enter additional Receiving Party(ies) Name (line 1) Name (line 2) Address (line 3) City State/Country Name (line 1) Name (line 2) Address (line 1)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	t to be recorded ment and the urty is not a the United ppointment ic ive is attached.
Enter additional Receiving Party(ies) Name (line 1) Name (line 2) Address (line 1) Address (line 3) City State/Country Name (line 1) Name (line 2) Address (line 1)	If document is an assignm receiving part domiciled in States, an aprofa domestic representation (Designation separate document.)	t to be recorded ment and the urty is not a the United ppointment ic ive is attached.
Address (line 2) Address (line 3) City State/Country Name (line 1) Name (line 2) Address (line 1)	of a domestic representation (Designation separate doc Assignment.)	ic ive is attached. n must be a
Address (line 3) City State/Country Name (line 1) Name (line 2) Address (line 1)	representati (Designation separate do Assignment,	ive is attached. n must be a
City State/Country Name (line 1) Name (line 2) Address (line 1)	separate doc Assignment,	
City State/Country Name (line 1) Name (line 2) Address (line 1)		
Name (line 2) Address (line 1)	Zip Code	.)
Address (line 1)	, 	t to be recorded ment and the
	receiving pa	
Address (line 2)	States, an ap	ppointment
		ive is attached.
1		ocument from
Address (line 3) City State/Country	Zip Code	9
Application Number(s) or Patent Number(s)	Mark if additional n	numbers attached
Enter either the Patent Application Number or the Patent Number (DO No		
	Patent Number	
Patent Application Number(s)	A atent intimer	(3)
		1 1

FORM PTO-1619C	ECORDATION FORM COVER S	HEET .S. Department of Commerce
Expires 06/30/99	CONTINUATION	Patent and Trademark Office
OMB 0651-0027	PATENTS ONLY	PATENT
Conveying Party(ies) Enter additional Conveying Parties		onal names of conveying parties attached Execution Date Month Day Year
Name (line 1) Xuan Zhang	JUL 1 3 2000 (E)	04/19/2000
Name (line 2)		
	MADEMANN	Execution Date
		Month Day Year
Name (line 1) Peter J. M	liller	04/18/2000
Name (line 2)		
I value (line 2)		
		Execution Date
Name (line 1)		Month Day Year
L		
Name (line 2)		
<u> </u>		
Receiving Party(ies) Enter additional Receiving Party(ie	_	onal names of receiving parties attached
Name (line 1)	7	If document to be recorded
	· · · · · · · · · · · · · · · · · · ·	is an assignment and the
Name (line 2)		receiving party is not
Address (line 1)		domiciled in the United States, an appointment
Address (mac 1)		of a domestic
Address (line 2)		representative is attached.
		(Designation must be a separate document from
Address (line 3)		Assignment.)
City	State/Country Zi	ip Code
Name (line 1)		If document to be recorded
Name (line 2)		is an assignment and the receiving party is not
Ivaine (line 2)		domiciled in the United
Address (line 1)		States, an appointment
		of a domestic representative is attached.
Address (line 2)		(Designation must be a
		separate document from
Address (line 3)		Assignment.)
Application Number(s) o		ip Code Mark if additional numbers attached
1	Number or the Patent Number (DO NOT ENTE	·
Patent Application Num	ber(s)	Patent Number(s)
<u> </u>		
<u> </u>		

.



Attorney's Docket No. 00093

PATENT

For:	
For:	☑ U.S. Application or
	U.S. Provisional Application
For:	U.S. Patent
For:	PCT Application
Dv.	Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

	9 Queens Court	
Krzysztof Matyjaszewski	Pittsburgh, PA 15238	USA
(type or print name of inventors)	Address	Nationality
•	228 Woodside Road	
Scott G. Gaynor	Pittsburgh, PA 15221	USA
	400 N. Neville St. #203	
Hyun-jong Paik	Pittsburgh, PA 15213	S. Korea
	5644 Beacon Street, Apt. 2R	
Tomislav Pintauer	Pittsburgh, PA 15217	<u>Croatia</u>
·	4750 Centre Avenue, Apt. #3	
Jeff Pyun	Pittsburgh, PA 15213	USA
Jian Qiu	4910 Centre Avenue, Apt. E- Pittsburgh, PA 15213 Peor	12 oles Rep. Of China
	1 Gh. Polizu Street	
Mircea Teodorescu	Bucharest 78126 Romania	Romania
	358 Oakland Avenue, Apt. 3	
Jianhui Xia	Pittsburgh, PA 15213 Peop	les Rep. Of China
	2 Mikaila Way	
Xuan Zhang	Woburn, MA 01801 Peop	les Rep. Of China
	140 Forest Glen Drive	
Peter J. Miller	<u>Imperial, PA 15126</u>	USA

nereby sells,	assigns and transfers to	
ASSIGNEE:		
Carnegie Mel (type or print nar	lon University ne of ASSIGNEE)	5000 Forbes Avenue Address
(a Non-profit Nationality	Pennsylvania organization)	Pittsburgh, PA 15213
and the succ	essors, assigns and legal representatives	of the ASSIGNEE
	(complete one of	the following)
⊠ t	the entire right, title and interest	
		%) interest for the United States
	(check the following box, if foreign	rights are also to be assigned)
CONTROLL	its which are disclosed in the invention enti	(CO)POLYMERIZABLE MONOMERS AND
	(check and complete (a), (o), (c), (d), (e), (f) or (g))
and which is	s found in	
(a) 🗆	U.S. patent application executed on even	date herewith
(b) 🗀	U.S. patent application executed on	
(c) 🗆	U.S. provisional application naming the at	ove inventor(s) for the above-entitled invention
	Express mail label no.:	· · · · · · · · · · · · · · · · · · ·
	Mailed:	
. 0	To comply with 37 CER 3 21 for recordal	of this assignment, I, an ASSIGNOR signing below, ney to insert below the filing date and application
		filed on March 23, 2000
(e) 🗀	International application no. PCT /filed on	
(f) 🗆	U.S. patent no.	issued
	☐ A change of address to which corres fees is being sent separately.	pondence is to be sent regarding patent maintenance

(g)

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have I	Date of s	igning
WARNING: The date of signing must be the sam	ne as the date of execution of the application, if Item (a) was checked abo	ve.
Krzysztof Matyjaszewski	gholiesti.	4/18/2000
(type name of Inventor)	Signature of INVENTOR	Date
Scott G. Gaynor	10065	4/18/2000
	va wo	Date 4/18/2000
Hyun-jong Paik		Date
Tomislav Pintauer	Townslov Prutaver	4/18/2000
	le o	Date
Joff Drawn	All 1	4/18/200
Jeff Pyun	- (11)/)	Date
Jian Qiu	Juak	4/18/200
		Date
Mircea Teodorescu		
Jianhui Xia	Vas S	4/18/200
		Date
Xuan Zhang		·····
Peter J. Miller	both Mull	4/18/2000
relei J. Ivinici		Date
•		•
		

No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date of signing of the application, if item (a) was checked above. ature of INVENTOR
ature of INVENTOR
01
My M
ν

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(g)

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

	ot hand and seal this April 20, 2000
IN WITNESS WHEREOF, We have nereditions	et hand and seal thisApril 26, 2000 Date of signing
ARNING: The date of signing must be the same as the date	e of execution of the application, if item (a) was checked above.
zysztof Matyjaszewski	Signature of INVENTOR
pe name of Inventor)	
cott G. Gaynor	
yun-jong Paik	
omislav Pintauer	
eff Pyun	
lian Qiu	Interdorer en
Mircea Teodorescu	Meodorese
	· · · · · · · · · · · · · · · · · · ·
Jianhui Xia	
Xuan Zhang	
Peter J. Miller	

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

JUNE 15, 2000

PTAS

KIRKPATRICK & LOCKHART LLP CHRISTINE R. ETHRIDGE, ESQUIRE HENRY W. OLIVER BUILDING 535 SMITHFIELD STREET PITTSBURGH, PA 15222-2312



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/09/2000

REEL/FRAME: 010697/0967

NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MATYIASZEWSKI, KRZYSZTOF

DOC DATE: 04/18/2000

ASSIGNOR:

GAYNOR, SCOTT G.

DOC DATE: 04/18/2000

ASSIGNOR:

PAIK, HYUN-JONG

DOC DATE: 04/18/2000

ASSIGNOR:

PINTAUER, TOMISLAV

DOC DATE: 04/18/2000

ASSIGNOR:

PYUN, JEFF

DOC DATE: 04/18/2000

ASSIGNOR:

ZHANG, XUAN

DOC DATE: 04/19/2000

ASSIGNOR:

MILLER, PETER J.

DOCKETED

DOC DATE: 04/18/2000 RECEIVE

JUN 19 2000

JUN 1 9 2000

TERRI WATSON

THE TRICK & LOCKHART

010697/0967 PAGE 2

ASSIGNOR:

QIU, JIAN DOC DATE: 04/18/2000

ASSIGNOR:

TEODORESCU, MIRCEA DOC DATE: 04/26/2000

ASSIGNOR:

XIA, JIANHUI DOC DATE: 04/18/2000

ASSIGNEE:

CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PENNSYLVANIA 15213

SERIAL NUMBER: 09534827 FILING DATE: 03/23/2000

PATENT NUMBER: ISSUE DATE:

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

JUN JUN	. 8. 2000 11:20AM	KIR. LOCK LLP			10. 0975 r. Z
	FORM PTO-1619A Expires 06/30/99 OMB 0651-0027 Tot The Commissioner of P	CO RECORDATION PAT	06-14-2000 101353343 FORM COVER SE	nt and T	TENT - P L. (
		atents and I rademarks; Fi	Conveyance Type	3.7	
	Submission Type New		Assignment	Security Ag	recment
	Resubmission (Non-Re-	cordation)	License	Change of	- 2
	Correction of PTO Err		Merger -	Other	
	Reci#	Frame#	U.S. ((For Use ONLY	Government by U.S. Governme	nt Agender)
	Corrective Document Reel #	Frame#	Departmen		at Agenglet).
	Conveying Party(ies) .	Mark if additions	il names of conveyt	ng parties attached Execution Date Month Day Year
	Name (line 1) Krzyszto	f Matyjaszewski			04/18/2000
	Name (line 2)				
•	Second Party				Execution Date Month Day Year
	Name (line 1) Scott G.	Gaynor			04/18/2000
ŧ	Name (line 2)				·
	Receiving Party		Mark if addition	al names of receiving	ng parties attached nt to be recorded
		egie Mellon Universit	Υ	is an assig	nment and the
	Name (line 2)	,		domiciled States an	in the United appointment
	\	Forbes Avenue		of a dome	stic ative is attached.
	Address (line 2)		1521	- separate	ion must be a document from
٠.,	Addiess (date 5)			Code	
06/12/2000	BCOPTES - 00000129 111110	09534827 FO	r office USE only		
01 FC:581 02 FC:584	40.00 CH 120.00 CH	10	•• •		

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and estimate to the U.S. Patent and Trademark Office, Chief Information Project (0651-0027), Washington, D.C. 20503. See OMB Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Assignment of the recorded with required course should information for

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PL-354356.01

FORM DOWN	C10D					7
FORM PTO-1						t of Commerce
Expires 06/30/ OMB 0651-00		Da	ge 2		Patcut and Trad	
		ame and Address	gc z	·		PATENT
Domestic Kehi	. eschtamae 142	ime and Addiess	Ente	er for the first Rec	civing Party only.	
r						
Name						
Address (line 1)				···		
Address (line 2)						
Address (line 3)			-		· · · · · · · · · · · · · · · · · · ·	
Address (line 4)						
Corresponden	t Name and A		and Telej	phone Number	(412) 355-861	9
Name C	hristine R. Eth	ridge. Esquire				
Address (line 1) K	irkpatrick & I	ockhart LLP				
Address (line 2)	enry W. Olive	r Building	·			
Address (line 3) 5	35 Smithfield	Street				
Address (line 4)	ittsbureh, PA	15222-2312				
	Enter the total n including any at	number of pages of the	e attache	d conveyance d	locument # 5	
Application N	umber(s) or P	atent Number(s)		Mark Mark	if additional numi	oers attached
Enter either the Po	ttent Application Nu	mber or the Patent Numbe	er (DO NO1	ENTER BOTH nu	mbers for the same p	roperty).
Patent Ap	plication Number	(s)	1	P	atent Number(s)	
09/534827						
If this document is be signed by the first na	sing Aled together w	ith a <u>new</u> Patent Applicat ator.	 lon, enter t	he date the patent (application was	Month Day Year
Patent Cooper Enter PC	T application nun	PCT	PC	т	PCT [
<u>only if</u> a	U.S. Application I een assigned.	Number PCT	PC	т	PCT	
Number of Pr		e total number of prop	erties invo	lved. #	1	
·						
			•••	- com 4 44 -	40.00	
Fee Amount	Fee	Amount for Propertie	Listed (3	/ CFR 3.41): \$		

JUN.	8. 2000 11: 20AM KI & LOCK LLP	NO. 09/5	ř. 4
*	Method of Payment: Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account Deposit Account Number: # 1 Authorization to charge additional fees:	unt.) 1-1110 Yes 🔀	No 🔲
	Statement and Signature		
	To the best of my knowledge and belief, the foregoing information is true and correct true copy of the original document. Charges to deposit account are authorized, as incomplete the copy of the original document. Christine R. Ethridge Name of Person Signing Signature	and any attached cop dicated herein. <u>6/8/00</u> Date	y is α

FORM PTO-1619C	RECORDATION FOI	RM COVER SHEET	.S. Department of Commerce
Expires 06/30/99	CONTINUAT	VATION Patent and Trademark Office	
OMB 0651-0027	PATENTS O		PATENT
Conveying Party(ies) Enter additional Conveying Parties		Mark if additional nam	es of conveying parties attached Execution Date Month Day Year
Name (line 1) Hyun-jong Paik			04/18/2000
Name (line 2)			
Name (line 1) Tomislav Pintar	ет		Execution Date Month Day Year 04/18/2000
Name (line 2)		-	
Name (line 1) Jeff Pyun			Execution Date Month Day Year 04/18/2000
Name (line 2)			
Receiving Party(ies) Enter additional Receiving Party(les	,	Mark if additional nam	es of receiving parties attached
Name (line 1)			If document to be recorded
Name (line 2)			is an assignment and the receiving party is not
Address (line 1)			domiciled in the United States, an appointment of a domestic
Address (line 2)			representative is attached.
Address (line 3)			(Designation must be a separate document from Assignment.)
City Name (line 1)	State/Country	Zip Code	If document to be recorded
Name (line 2)			is an assignment and the receiving party is not
Address (line 1)			domiciled in the United States, an appointment
Address (line 2)			of a domestic representative is attached.
Acouress (mae 2)			(Designation must be a
Address (line 3)			separate document from Assignment.)
Application Number(s) or	Patent Number(s)	Zip Code Mark	if additional numbers attached
Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).			
Patent Application Numb	er(s)	Pa	itent Number(s)

FORM PTO- Expires 06/3	0/99	RECORDATION FOR CONTINUAT	ION	Department of Commerce Patent and Trademark Office
OMB 0651-		PATENTS OF		PATENT
Conveying P	arty(ies) Conveying Parties	Ц	Mark if additional use	nes of conveying parties attached Execution Date Month Day Year
Name (line 1)	Xuan Zhang			04/19/2000
Name (line 2)				
			· · · · · · · · · · · · · · · · · · ·	Execution Date Manth Day Year
_	Peter J. M	iller		04/18/2000
Name (line 2)				Execution Date
Name (line 1)				Month Day Year
Name (line 2)			77	
Receiving Pa	arty(ies) Receiving Party(les	, \square	Mark if additional nan	nes of receiving parties attached
Name (line 1)				If document to be recorded is an assignment and the
Name (line 2)				receiving party is not domiciled in the United
Address (line 1)				States, an appointment of a domestic
Address (line 2)				representative is attached. (Designation must be a
Address (line 3)				separate document from Assignment.)
Name (line 1)	City	State/Country	Zip Code	If document to be recorded
Name (line 2)	<u> </u>			is an assignment and the receiving party is not
Address (line 1)				domiciled in the United States, an appointment
Address (line 2)	,			of a domestic representative is attached. (Designation must be a
	<u> </u>			separate document from Assignment.)
Address (line 3)	City	State/Country	Zip Code	
Application Number(s) or Patent Number(s) Mark if additional numbers attached				
1		*		numbers for the same property).
Paten	t Application Numl	per(s)		Patent Number(s)
	_			
	<u> </u>	J [
	<u>ـــــــا</u> لــــــــــا			
<u> </u>		<u> </u>		

FORM PTO- Expires 06/3		CONTINUA	TION	U.S. Department of Commerce Patent and Trademark Office
OMB 0651-4	0027	PATENTS (PATENT
Conveying P Enter additional	arty(ies) Conveying Parties	<u>K</u>	Mark if additional nac	nes of conveying parties attached Execution Date Month Day Year
Name (line 1)	Jian Qiu			04/18/2000
Name (line 2)				
_				Execution Date Month Day Year
j L	Mircea Teoc	lorescu		04/26/200
Name (line 2)				Execution Date
				Month Day Year
Name (line 1)	Jianhui Xi	la		04/18/2000
Name (line 2)				
Receiving Pa	arty(ies) Receiving Party(les,	,	Mark if additional nat	nes of receiving parties attached
Name (line 1)			 7 [If document to be recorded
Maure (inte 1)	`L			is an assignment and the receiving party is not
Name (line 2)				domiciled in the United
Address (line 1)				States, an appointment
7400.000 (0000 5)	L			of a domestic representative is attacked.
Address (line 2)				(Designation must be a
				separate document from
Address (line 3)	City	State/Countr	v Zip Code	Assignment.)
Name (line 1)	· ·		<u> </u>	If document to be recorded
Mame (me r)	<u> </u>			is an assignment and the
Name (line 2)	, [receiving party is not domiciled in the United
Address (line 1)	,			States, an appointment of a domestic
	L			representative is attached.
Address (line 2)) [·_	(Designation must be a
1				separate document from Assignment.)
Address (line 3) City	State/Count	y Zip Code	
		Patent Number(s)		rk if additional numbers attached
Enter etiher t	he Patent Application	Number or the Patent Numb	er (DO NOT ENTER BOTH	numbers for the same property).
Pater	nt Application Num	ber(s)	1	Patent Number(s)
	7	7		
<u> </u>				
	7			
			·	
<u> </u>		_ <u></u>		

Attorney's Docket No. 00093

For: ☑ U.S. and/or ☑ Foreign Rights
For: ☑ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration.

ASSIGNORS (Inventors):

	a Canalis Coalt	
Krzysztof Matylaszewski	Pittsburgh, PA 15238	USA
(type or print name of inventors)	Address .	Nationality
	228 Woodside Road	
Scott G. Gaynor	Pittsburgh, PA 15221	USA
	400 N. Neville St. #203	
Hyun-jong Paik	Pittsburgh, PA 15213	S. Korea
	5644 Beacon Street, Apt. 2R	
Tomislav Pintauer	Pittsburgh, PA 15217	Croatia
·	4750 Centre Avenue, Apt. #3	
Jeff Pyun	Pittsburgh, PA 15213	USA
Jian Qiu	4910 Centre Avenue, Apt. E-12 Pittsburgh, PA 15213 People	
•	1 Gh, Polizu Street	
Mircea Teodorescu	Bucharest 78126 Romania	Romania
	358 Oakland Avenue, Apt. 3	
Jianhui Xia	Pittsburgh. PA 15213 Peoples	Rep. Of China
	2 Mikaila Way	
Xuan Zhang	Woburn, MA 01801 Peoples	Rep. Of China
	140 Forest Glen Drive	
Peter J. Miller	Imperial PA 15126	· USA

PI-512907.01

hereby sells, assigns and transfers to	
ASSIGNEE:	
Camegie Mellon University (type or print name of ASSIGNEE)	5000 Forbes Avenue Address
(a Non-profit Pennsylvania organization) Nationality	Pittsburgh, PA 15213
	·
and the successors, assigns and legal representatives	of the ASSIGNEE
(complete one of	the following)
the entire right, title and interest	continued for the United States
an undivided percent (%) interest for the United States
(check the following box, if foreign	rights are also to be assigned)
and in all foreign countries, including a improvements which are disclosed in the invention en CONTROLLED POLYMERIZATION OF FREE RADIO FUNCTIONAL POLYMERIC SYSTEMS PREPARED.	all rights to claim priority, in and to any and all litled: CATALYTIC PROCESSES FOR THE ALLY (Co)POLYMERIZABLE MONOMERS AND ITHEREBY
(check and complete (a),	(b), (c), (d), (e), (f) or (g))
and which is found in	
	n dale herewith
(a) ☐ U.S. patent application executed on	(a) for the above-entitled invention
(c) U.S. provisional application naming the	above Inventor(s) for the above-entitled invention
Express mail label no.:	
Mailed:	ACCIONOR signing below.
hereby authorize and request my and thou become known.	lal of this assignment, I, an ASSIGNOR signing below, omey to insert below the filing date and application
	filed on March 23, 2000
(e) 🔲 International application no. PCT /	
(n C U.S. patent no	
A change of address to which cor fees is being sent separately.	respondence is to be sent regarding patent maintenance
	(Assignment of Invention-Multiple Inventors [16-3.2]-page 2 of 3)

(g) \times and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this __

WARNING: The date of signing must be the same	ne as the date of execution of the application, if item (a) was checked abo	ove.
Krzysztof Matylaszewski	gholyenshi	4/18/200
(type name of Inventor)	Signature of INVENTOR	Date
Scott G. Gaynor	(att 6.5 -	4/18/2000
Hyun-iong Paik	organo	Date 4/18/2000
Tomislay Pintauer	Townslow Prutamer	Date 4/18/2000
Jeff Pyun	Alb 2-	Date 4/18/200
Jian Qiu	Juano.	Date4/18/200 Date
Mircea Teodorescu		
Jianhui Xia		4/18/200 Date
Xuan Zhang	11-10011	
Peter J. Miller	both flulle	4/18/2000 Date
Notar	rization or Legalization Page Added.	

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be

prima facle evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention-Multiple Inventors [16-3.2]-page 3 of 3)

K'" & LOCK LLY

(also check (g), if foreign application(s) is also being assigned)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this _		April	19,	2000
, , , , , , , , , , , , , , , , , , , ,				Date of signing
WARNING: The date of signing must be the same as the date of exe-	cution of the applicatio	n, if item (a)	was ch	ecked above.
Krzysztof Matyjaszewski	Signature of INVEN	TOP		·
(type name of Inventor)	orgunature of HAAEIA	IUK		
Scott G. Gaynor				
Hyun-long Palk			·	
Tomislav Pintauer				
Jeff Pyun				
Jian Qlu				
Mircea Teodorescu				
Jianhui Xia				
Xuan Zhang	The .	X	~	
Peter J. Miller				·
Notarization or Legali	zation Page Adde			
NOTE: No witnessing, notarization or legalization is necessary. If t	he assignment is nota	tzed or legal	ized, th	en it will only be

prima facle evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention-Multiple Inventors [16-3.2]-page 3 of 3)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said Invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set ha	and and seal this	April	26,	2000
		<u>:</u> .		Date of signing
WARNING: The date of signing must be the same as the date of ex	recution of the application	on, if item (a)	was ch	ecked above.
Krzysztof Matyjaszewski				
(type name of Inventor)	Signature of INVEN	TOR		
Scott G. Gaynor				
Hyun-jong Paik				
Tomislav Pintauer				
Jeff Pyun				
Jian Qiu				
Mircea Teodorescu	mteod	ove	<u></u>	
lianhul Xia				
Kuan Zhang				
Peter J. Miller				
☐ Notarization or Legali	zation Page Added.			

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be

prima facte evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention-Multiple Inventors [16-3.2]-page 3 of 3)